



## Goddard Space Flight Center 2009 Sample Student Projects

### Required Academic Level

Freshman/Sophomore  
Undergraduate, Junior/Senior  
Undergraduate, Graduate/Masters

### Category

*Engineering*

### Subcategory

*Integration & Test*

### Project Title

*Assembly & Testing of an Optical Sensor for Earth Science*

### Project Description

The student will assist NASA engineers in optical component measurements, then assembly of these components into a breadboard level optical instrument, then assist in testing this assembly.

### Mentor's Expectation of Student

Ability to work independently at times, as part of a team at other times.

### Discipline of Project and/or Background Needed to successfully complete the project

Optical Engineering

### Skills

Optics, Excel, Word, Powerpoint